

Heterogeneously catalyzed partial gas phase oxidation of propene to acrylic acid

Abstract

- 5    In a process for heterogeneously catalyzed partial gas phase oxidation of propene to acrylic acid, the starting reaction gas mixture is oxidized at a propene loading of <160 l(STP)/l•h in a first reaction stage over a fixed catalyst bed 1 which is accommodated in two successive reaction zones A, B, and the acrolein-containing product gas mixture of the first reaction stage is subsequently oxidized in a second reaction stage
- 10    over a fixed catalyst bed 2 which is accommodated in two successive reaction zones C, D, the highest temperature of the reaction gas mixture within reaction zone A being above the highest temperature of the reaction gas mixture within reaction zone B and the highest temperature of the reaction gas mixture within reaction zone C being above the highest temperature of the reaction gas mixture within reaction zone D.

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